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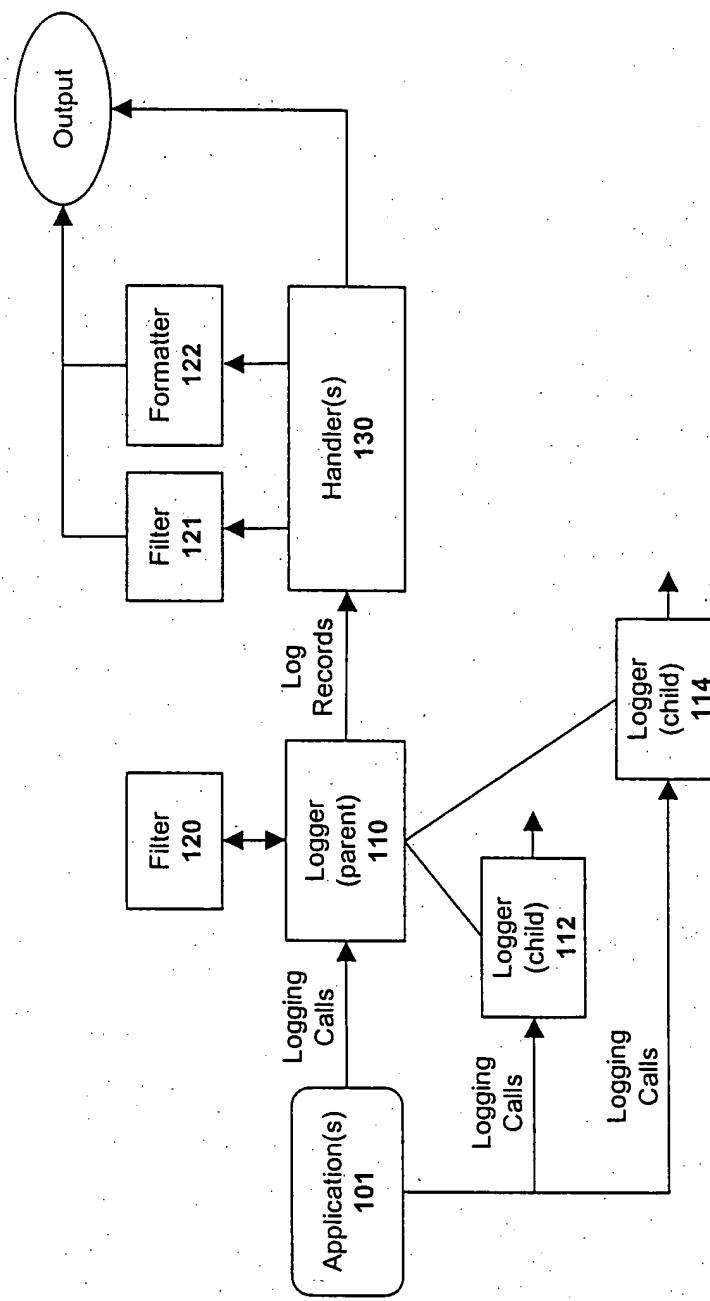
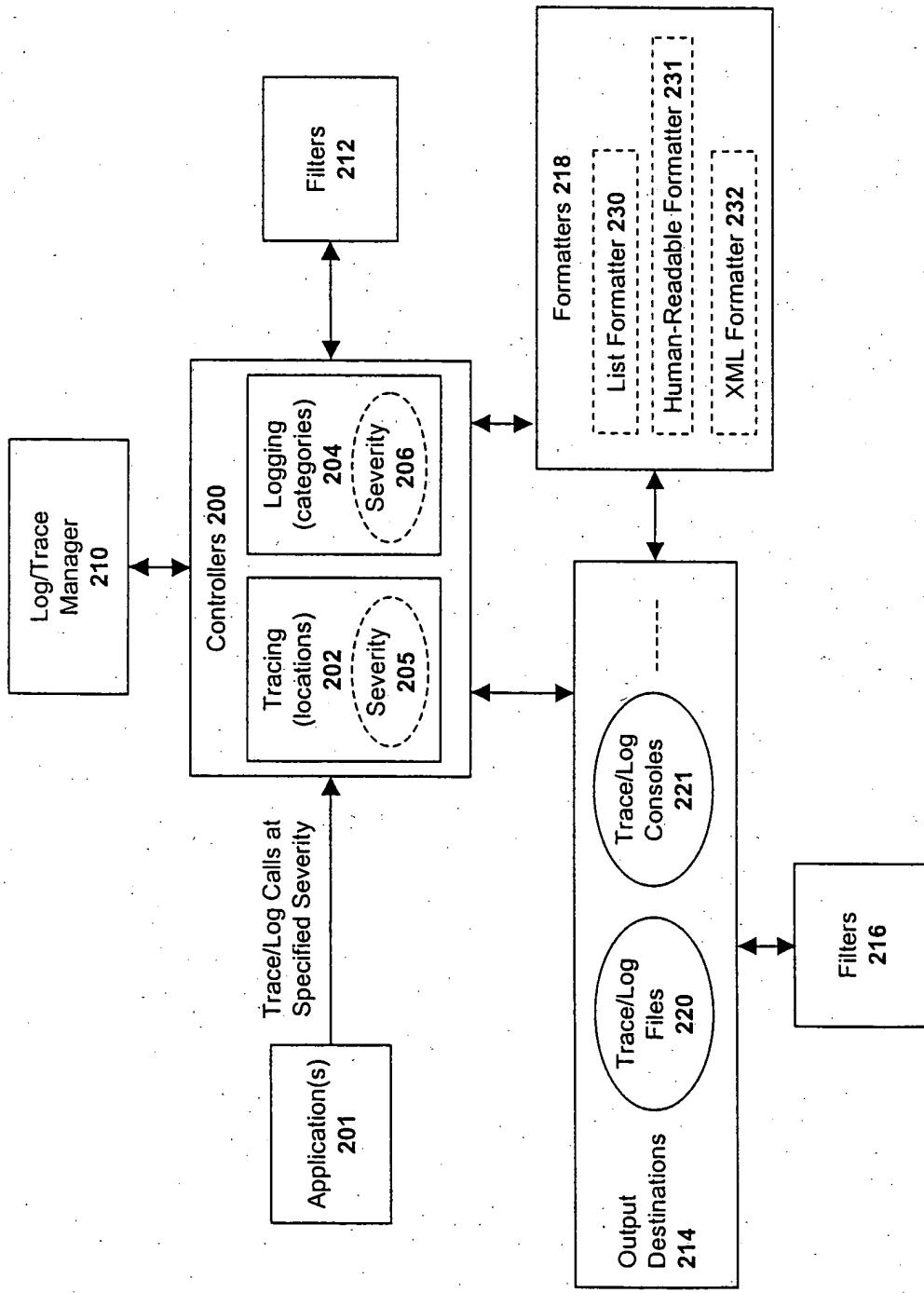


Fig. 1
(Prior Art)

Fig. 2



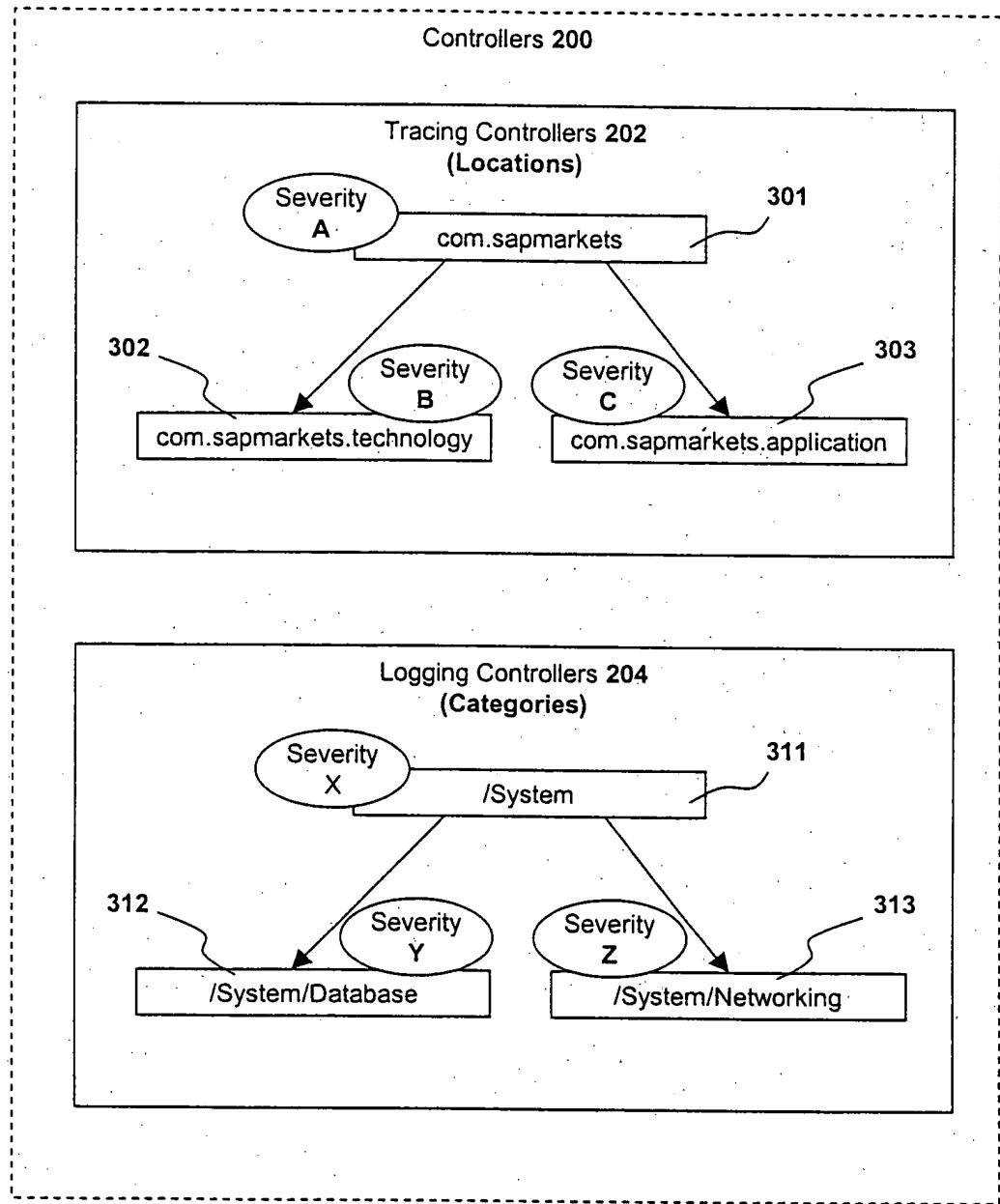


Fig. 3

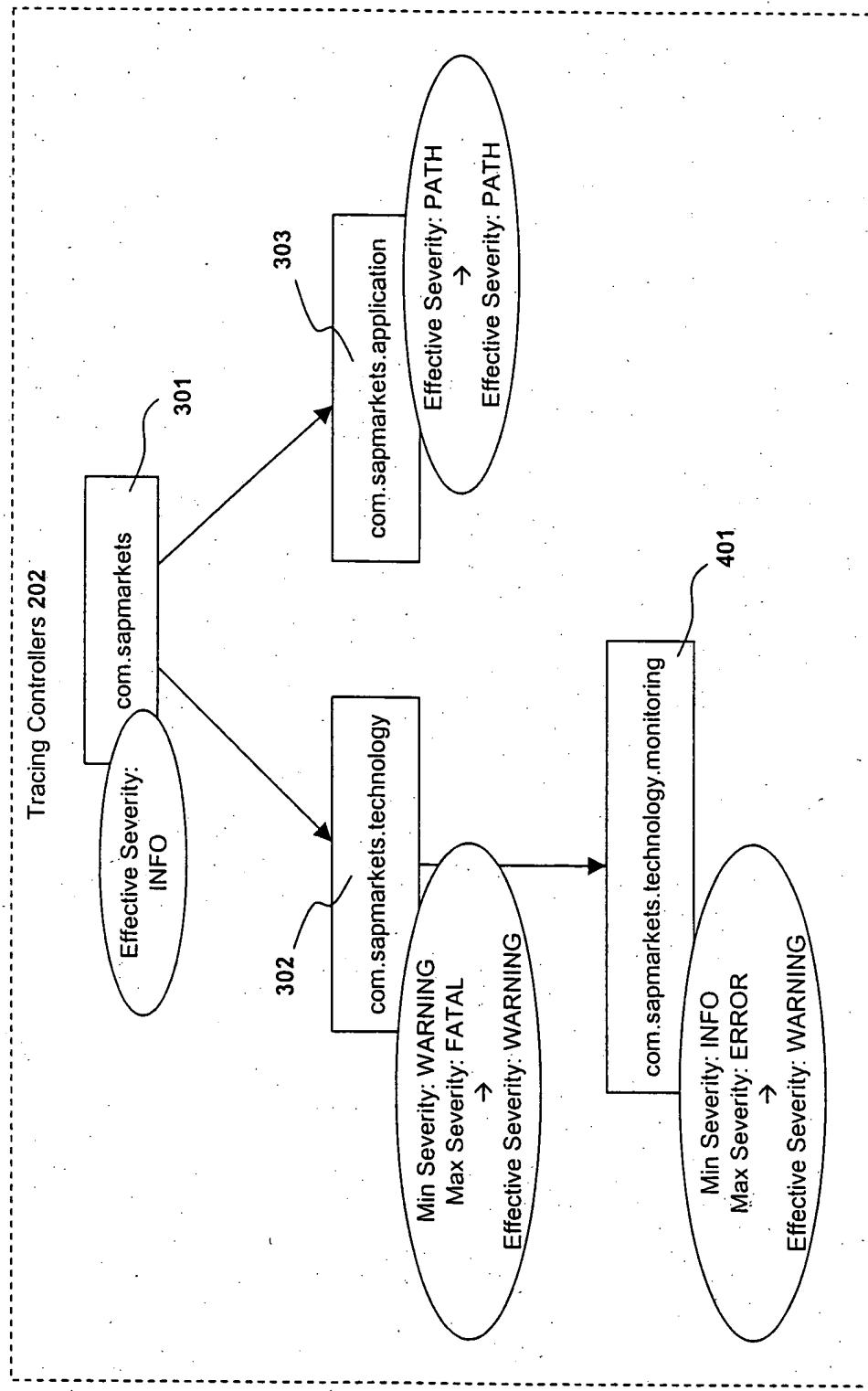


Fig. 4

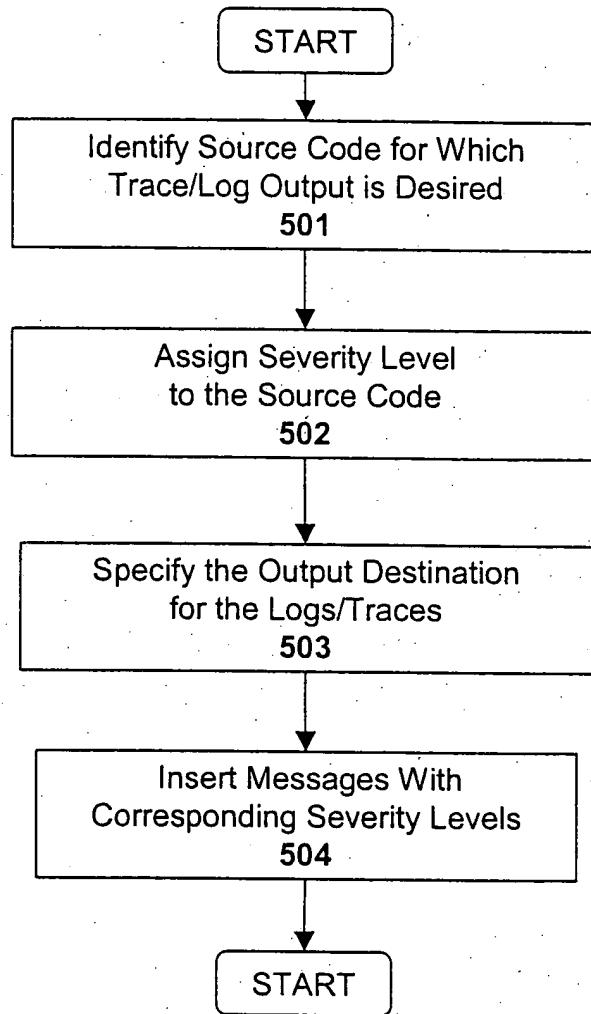


Fig. 5

MIN	0	Minimum restriction
DEBUG	100	For debugging purpose, with extensive and low level information
PATH	200	For tracing the execution flow, e.g., used in the context of entering and leaving a method, looping and branching operations
INFO	300	Informational text, mostly for echoing what has been performed
WARNING	400	Application can recover from anomaly, and fulfill the desired task, but need attention from developer/operator
ERROR	500	Application can recover from error, but cannot fulfill desired task due to the error
FATAL	600	Application cannot recover from error, and the severe situation causes fatal termination
MAX	700	Maximum restriction

Fig. 6a

ALL	0	Output messages of all severity
NONE	701	No messages will be logged

Fig. 6b

```
#### Location "com.sapmarkets.usermanagement"  
#### Assign severity threshold to WARNING level  
com.sapmarkets.usermanagement.severity = WARNING  
710 →  
#### Now, specify Console as the destination to 'usermanagement'  
com.sapmarkets.usermanagement.logs = ConsoleLog  
720 →  
712 → 714 → 716 →  
722 → 724 →
```

FIG. 7a

Jan 3, 2002 6:54:18 PM com.sapmarkets.usermanagement.ClassA.method1[main] Warning: xxxxxxxx

Jan 3, 2002 6:54:18 PM com.sapmarkets.usermanagement.ClassB.method2 [main] Fatal: Unable to

FIG. 7b

8
EG

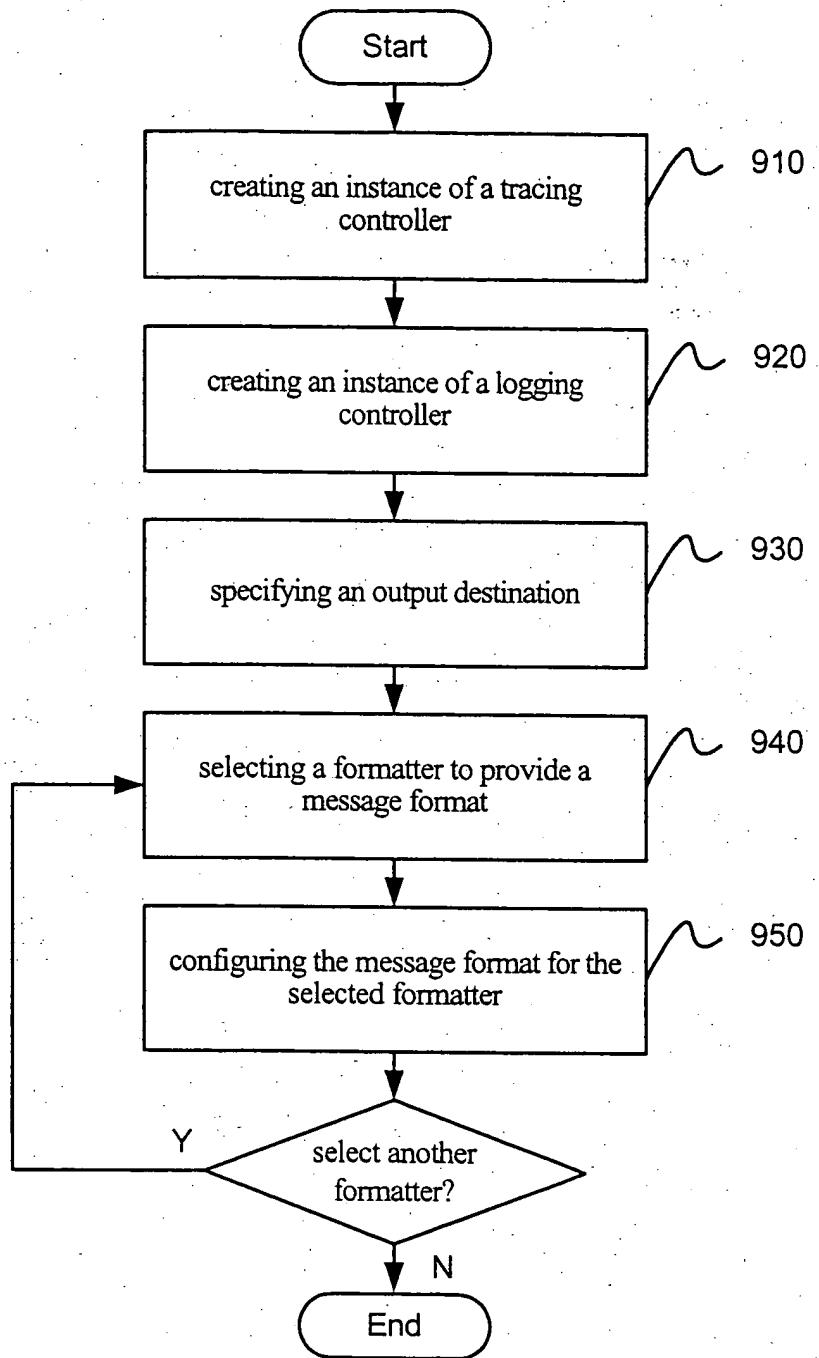
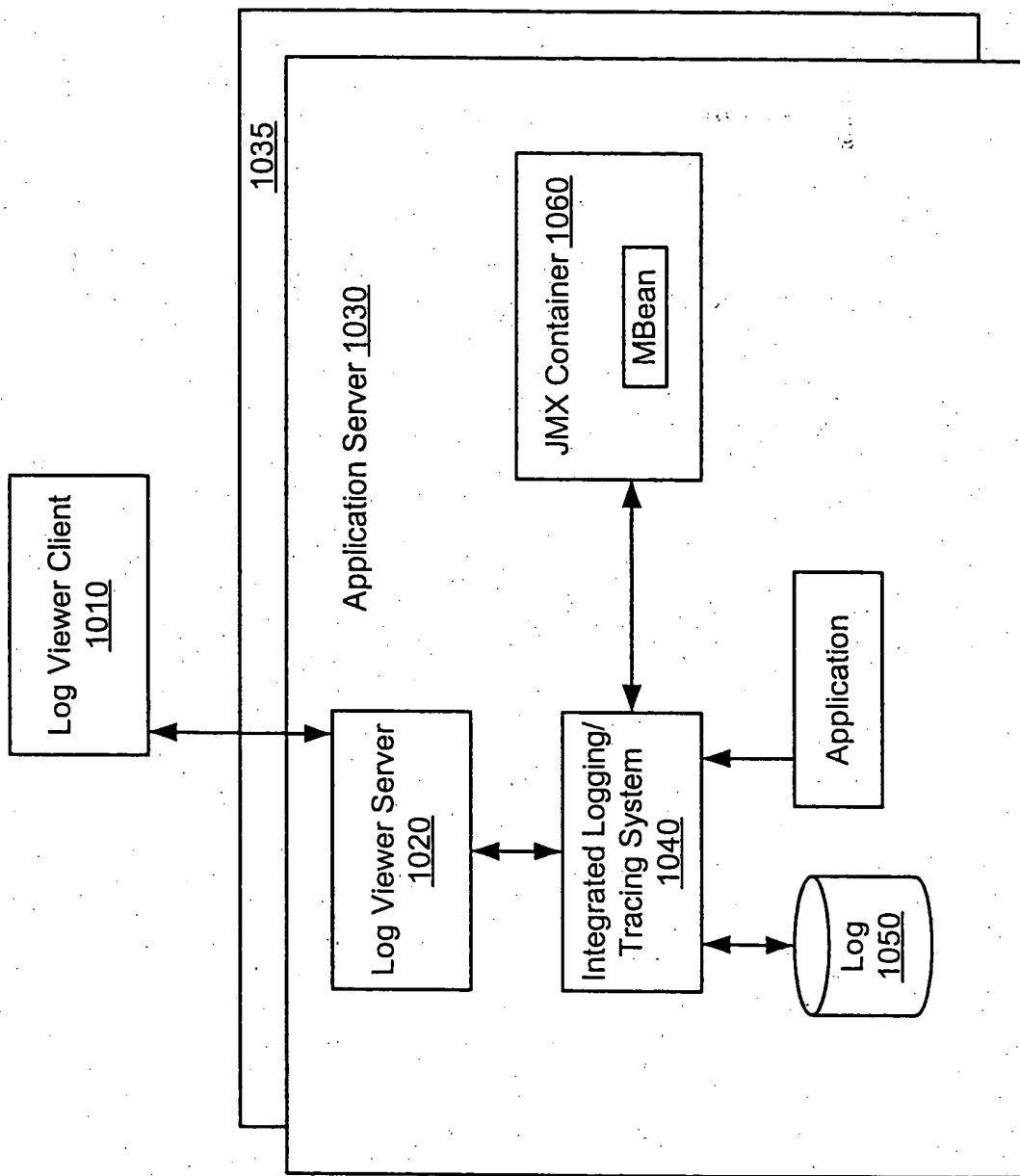


FIG. 9

FIG. 10



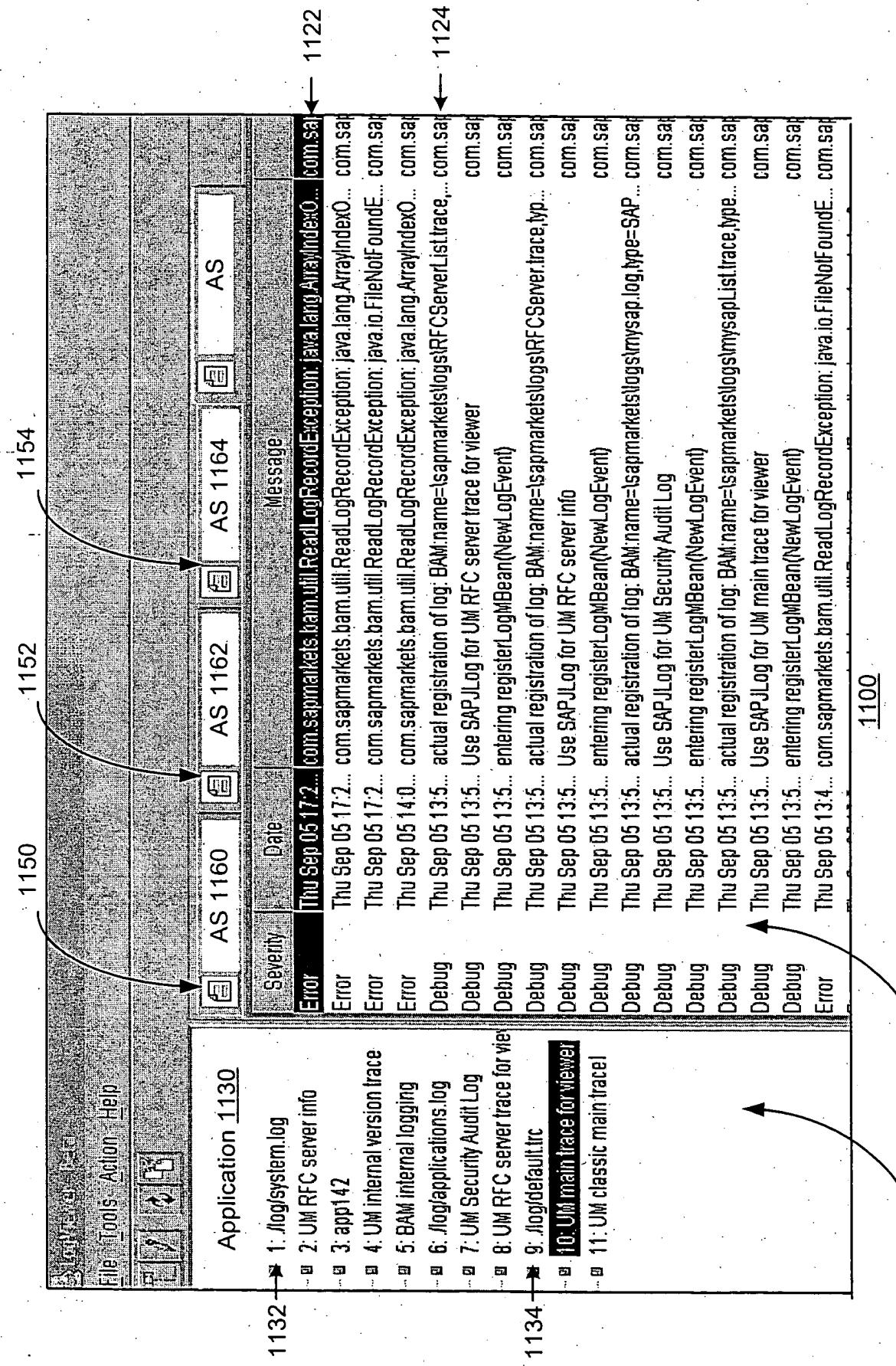


FIG. 11

5: BAM internal Logging	Error	Thu Sep 05 14:00 ... com.sapmarkets.bam.util.ReadLogRecordException: java.lang.ArrayIndexOutOfBoundsException
6: JLogApplications.log	Debug	Thu Sep 05 13:55 ... actual registration of log: BAM:name=lsapmarkets!logsrFCServerList.trace,...
7: UM Security Audit Log	Debug	Thu Sep 05 13:55 ... Use SAPJLog for UM RFC server trace for viewer
8: UM RFC server trace for viewer		This Conn 1225 ... continuing connection, com.sapmarkets!logsrFCServerList.trace,...
9: Log/default.lnc		
10: UM main trace for viewer		
11: UM classic main trace!		
		Thu Sep 05 13:00 ... com.sapmarkets.bam.util.registerLogMBean(NewLogEvent)
		Thu Sep 05 13:00 ... actual registration of log: BAM:name=lsapmarkets!logsrFCServerList.trace,...
		Thu Sep 05 13:00 ... Use SAPJLog for UM RFC server trace for viewer
		Thu Sep 05 13:00 ... entering registerLogMBean(NewLogEvent)
		Thu Sep 05 13:00 ... actual registration of log: BAM:name=lsapmarkets!logsrFCServerList.trace,...
		Thu Sep 05 13:00 ... Use SAPJLog for UM RFC server trace for viewer
		Thu Sep 05 13:00 ... entering registerLogMBean(NewLogEvent)
		Thu Sep 05 13:00 ... actual registration of log: BAM:name=lsapmarkets!logsrFCServerList.trace,...
		Thu Sep 05 13:00 ... Use SAPJLog for UM Security Audit Log
		Thu Sep 05 13:00 ... entering registerLogMBean(NewLogEvent)
		Thu Sep 05 13:00 ... actual registration of log: BAM:name=lsapmarkets!logsrFCServerList.trace,...
		Thu Sep 05 13:00 ... Use SAPJLog for UM RFC server trace for viewer
		Thu Sep 05 13:00 ... continuing connection, com.sapmarkets!logsrFCServerList.trace,...

1200

FIG. 12

FIG. 13a

LogViewer - Beta			
File	Tools	Action	Help
Application			
Martin Server (UM) (martin.pat sap)			
1: LogSystem.log			
2: UM RFC server info			
3: app142			
4: UM Internal Version trace			
5: BAM Internal Logging			
6: JlogApplications.log			
7: UM Security Audit Log			
8: UM RFC server trace for viewer			
9: Jlogdefault.itsc			
10: UM main trace for viewer			
11: UM classic main trace			

ThreadId	DataSource	SourceName	Severity	Message	Date
10	Debug	actual registration of log: BAM:name=sapmarkets.logsr...	Thu Sep 05 13:53:48 PDT...	com.sapmarkets.bam.lmadapter.sa...	
10	Debug	Use SAPJLog for UM RFC server trace for viewer	Thu Sep 05 13:53:48 PDT...	com.sapmarkets.bam.lmadapter.sa...	
10	Debug	entering registerLogBean(NewLogEvent)	Thu Sep 05 13:53:48 PDT...	com.sapmarkets.bam.lmadapter.sa...	
10	Debug	actual registration of log: BAM:name=sapmarkets.logsr...	Thu Sep 05 13:53:48 PDT...	com.sapmarkets.bam.lmadapter.sa...	
10	Debug	Use SAPJLog for UM RFC server info	Thu Sep 05 13:53:48 PDT...	com.sapmarkets.bam.lmadapter.sa...	
10	Debug	entering registerLogBean(NewLogEvent)	Thu Sep 05 13:53:48 PDT...	com.sapmarkets.bam.lmadapter.sa...	
10	Debug	actual registration of log: BAM:name=sapmarkets.logsr...	Thu Sep 05 13:53:48 PDT...	com.sapmarkets.bam.lmadapter.sa...	
10	Info	ClassName = com.sapmarkets.usermodeling.util.Us...	Thu Sep 05 13:53:48 PDT...	com.sapmarkets.bam.security.julls.Trac...	
10	Debug	Use SAPJLog for UM Security Audit Log	Thu Sep 05 13:53:48 PDT...	com.sapmarkets.bam.lmadapter.sa...	
10	Debug	entering registerLogBean(NewLogEvent)	Thu Sep 05 13:53:48 PDT...	com.sapmarkets.bam.lmadapter.sa...	
10	Debug	actual registration of log: BAM:name=sapmarkets.logsr...	Thu Sep 05 13:53:48 PDT...	com.sapmarkets.bam.lmadapter.sa...	
10	Debug	Use SAPJLog for UM main trace for viewer	Thu Sep 05 13:53:48 PDT...	com.sapmarkets.bam.lmadapter.sa...	
10	Debug	entering registerLogBean(NewLogEvent)	Thu Sep 05 13:53:48 PDT...	com.sapmarkets.bam.lmadapter.sa...	
10	Error	com.sapmarkets.bam.util.ReadLogRecordException: jav...	Thu Sep 05 13:46:32 PDT...	com.sapmarkets.bam.logcontroller.l...	
10	Error	com.sapmarkets.bam.util.ReadLogRecordException: jav...	Thu Sep 05 13:38:53 PDT...	com.sapmarkets.bam.logcontroller.l...	
10	Error	com.sapmarkets.bam.util.ReadLogRecordException: jav...	Thu Sep 05 13:38:28 PDT...	com.sapmarkets.bam.logcontroller.l...	
10	Error	com.sapmarkets.bam.util.ReadLogRecordException: jav...	Thu Sep 05 13:38:19 PDT...	com.sapmarkets.bam.logcontroller.l...	
10	Error	com.sapmarkets.bam.util.ReadLogRecordException: jav...	Thu Sep 05 13:10:51 PDT...	com.sapmarkets.bam.logcontroller.l...	
10	Error	com.sapmarkets.bam.util.ReadLogRecordException: jav...	Thu Sep 05 13:08:45 PDT...	com.sapmarkets.bam.logcontroller.l...	
10	Error	com.sapmarkets.bam.util.ReadLogRecordException: jav...	Thu Sep 05 13:08:17 PDT...	com.sapmarkets.bam.logcontroller.l...	
10	Error	com.sapmarkets.bam.util.ReadLogRecordException: jav...	Thu Sep 05 13:08:04 PDT...	com.sapmarkets.bam.logcontroller.l...	
4	Info	ClassName = com.sapmarkets.usermodeling.simpl...	Thu Sep 05 13:07:37 PDT...	com.sapmarkets.bam.security.julls.Trac...	
4	Info	ClassName = com.sapmarkets.usermodeling.simpl...	Thu Sep 05 13:07:37 PDT...	com.sapmarkets.bam.security.julls.Trac...	
4	Info	ClassName = com.sapmarkets.usermodeling.simpl...	Thu Sep 05 13:07:37 PDT...	com.sapmarkets.bam.security.julls.Trac...	

ThreadId	DataSource	SourceName	Severity	Message	Date
4	UniqueIdUMV...	Info	ClassName = com.sapmarkets.usermodeling.admin.UserAd...		10.4
4	UniqueIdUMV...	Info	ClassName = com.sapmarkets.usermodeling.UserService...		10.4
4	UniqueIdUMV...	Info	ClassName = com.sapmarkets.usermodeling.iss.Language...		10.4
4	UniqueIdUMV...	Info	ClassName = com.sapmarkets.usermodeling.simplimp.lo...		10.4
10	com.sapmark...	Warning	password expired: superuser		10.4
4	UniqueIdUMV...	Info	ClassName = com.sapmarkets.usermodeling.SearchUtil...		10.4
4	UniqueIdUMV...	Info	ClassName = com.sapmarkets.usermodeling.SearchUtil...		10.4
4	UniqueIdUMV...	Info	ClassName = com.sapmarkets.usermodeling.SearchUtil...		10.4
4	UniqueIdUMV...	Info	ClassName = com.sapmarkets.usermodeling.SearchUtil...		10.4
10	com.sapmark...	Warning	password expired: forcing user to change: password		10.4

1372

1350

FIG. 13b

1430

1420

1412 — **UML internal version trace**

1414 → 11.Um main frame
11.Um classic ma

1400

FIG. 14

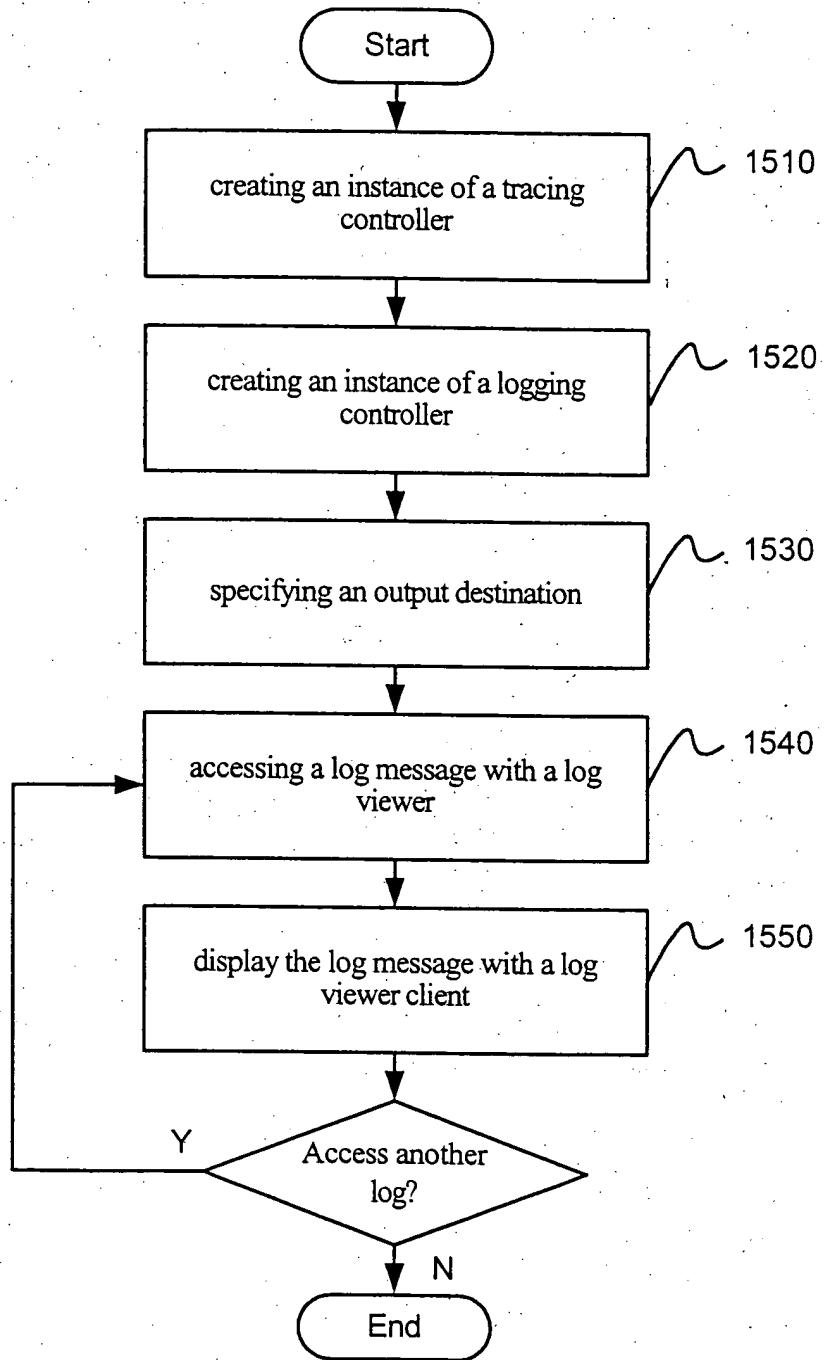


FIG. 15

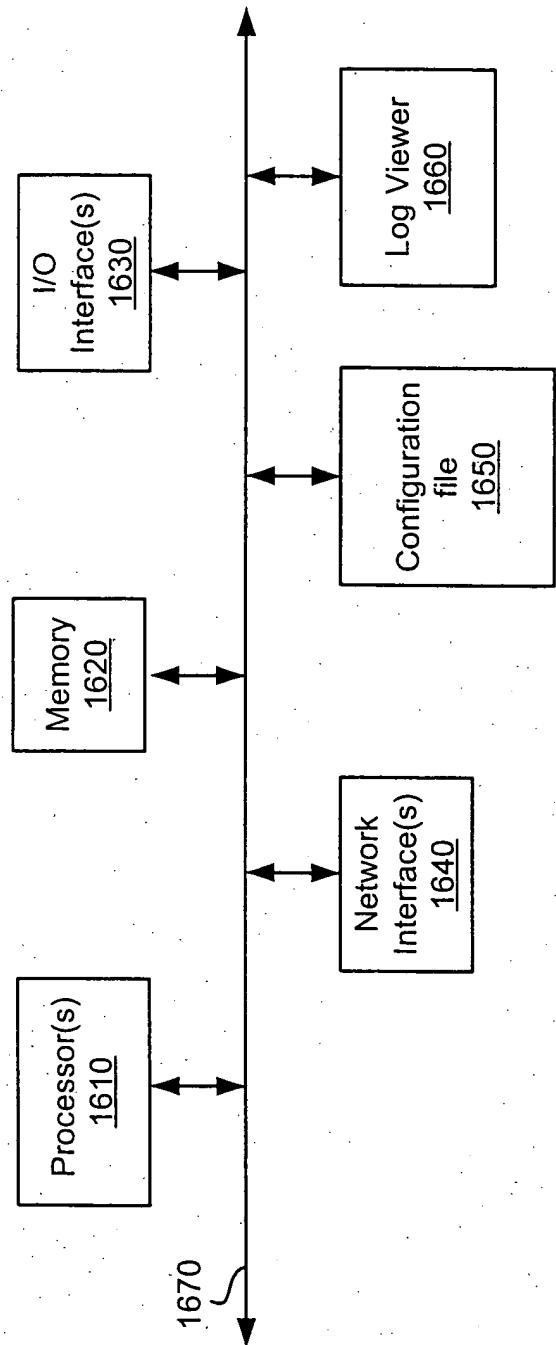


FIG. 16